

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Tatsuya TANAKA, et al.

SERIAL NO: NEW APPLICATION

FILED: HEREWITH

FOR: METHOD AND APPARATUS FOR INJECTION MOLDING LIGHT METAL ALLOY

GAU:

EXAMINER:



INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS
- WASHINGTON, D.C. 20231

SIR:

- Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

PETITION

- ☐ Applicant(s) hereby request consideration of the attached information. A check is attached in the amount of the Petition fee required under 37 CFR §1.17(i)(1).

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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FOR: METHOD AND APPARATUS FOR INJECTION MOLDING LIGHT METAL ALLOY

STATEMENT OF RELEVANCY

Reference AO (9-108805) on Form 1449:

This prior art document relates to a method for injection-molding semisolid metal and apparatus therefor.

Reference AP (9-155520) on Form 1449:

This prior art document relates to a metal forming method using metallic mold and metal forming mold.

Reference AQ (9-103859) on Form 1449:

This prior art document relates to a method and device for production of alloy product.

Reference AR (9-239512) on Form 1449:

This prior art document relates to a liquid phase injection formation of metal.

Reference AS (9-508859) on Form 1449:

This prior art document corresponding to US 5,501,266 relates to an injection molding of semi-solid metals - involves using screw to break down dendritic structure formed as metal is cooled below the liquidus temp. prior to injection into mold.

This reference is discussed in the specification.

Reference AT (2832625) on Form 1449:

This prior art document relates to an injection molding apparatus for metal compact - comprises metal feeding mechanism, metal heating supply and crusher.

This reference is discussed in the specification.

Reference AU (3-504830) on Form 1449:

This prior art document corresponding to US 5,040,589 relates to an injection moulding of metal alloys - such as magnesium alloys, with improved yield, productivity, and mould life.

This reference is discussed in the specification.